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TITLE : DRY GLUCOSE-ANALYZING ELEMENT

ABSTRACT : PURPOSE: To provide a dry glucose-analyzing element capable of quantitatively analyzing glucose in a high accuracy up to a high concentration region of the glucose by adding specific components to a reagent layer and an enzyme- containing layer, respectively, disposed on a support and using a special material in a light-shielding layer.

CONSTITUTION: A reagent layer, enzyme-containing layer, light-shielding layer and porous developing layer, all being water-permeable, are laminated in this order to a water and light-impermeable support. At least a coupler among a hydrogen peroxide-detecting coloring composition comprising a hydrogen donor and the couple is added to the reagent layer and glucose oxidase, peroxidase and a mordant are added to the enzyme-containing layer. An oxygen- permeable and protein-impermeable material is used for the light-shielding layer. It is preferable that the light-shielding layer is a non-porous layer wherein titanium dioxide fine powder having a light-shielding property and a light-reflecting property are bonded with a hydrophilic polymer having a little film formability.

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